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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,518	07/23/2003	Shun-Hsiang Ke	BHT-3111-344	7438

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FALLS CHURCH, VA 22041

EXAMINER

JACKSON, MONIQUE R

ART UNIT	PAPER NUMBER
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1773

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/624,518

Applicant(s)

KE ET AL.

Examiner

Monique R Jackson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Specification

1. The disclosure is objected to because the disclosure appears to be a literal translation of the Taiwanese application and hence includes various grammatical errors throughout.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

4. The following errors are further noted:

- a. Claim 1 recites the limitation “coating the resin A...to form a thin film on the resin A” and “coating the resin B...to form a thin film on the resin B” however it is unclear how resin A can form a thin film on A, and B on B.

- b. Claim 1 recites the limitation “partial bigger conductive particles”; Claim 14 recites that limitation “partial conductive particles”; and similarly, Claim 20 recites the limitation “partial conductive particles”, however there is insufficient antecedent basis for “partial conductive particles” and hence it is unclear to what the term “partial” is refers.

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c. Claims 2, 6, 7, 8, 12, 13, 16, and 19 include numerical ranges but utilizes the symbol “~” instead of a hyphen “-” wherein it is noted in the art, the symbol “~” indicates an approximation not a range, hence it is unclear whether the values are absolute endpoints.

d. Claims 4 and 15 recite the limitation “Poly-Ethylene (PET)” however it is noted that polyethylene is commonly abbreviated in the art as PE, while the abbreviation PET refers to polyethylene terephthalate, hence, given the contradiction between the complete term and the abbreviation, it is unclear whether the intent is to claim polyethylene (PE) or polyethylene terephthalate (PET). Further, it is unclear why the term “Poly-Ethylene” is capitalized.

e. Claim 5 recites the limitation “the resin A is composed of one of 1-Butanol, isopropanol (IPA), and acrylic resin” however it is noted that both 1-butanol and isopropanol are alcohols not polymer resins and hence it is unclear how resin A is composed of these alcohol compounds.

f. Claim 6 recites the limitation “the solid content of the resin A” however there is insufficient antecedent basis for this limitation, particularly considering the instant claim and parent claim provide no disclosure or suggestion that the resin A is a dispersion or other form of coating including non-solid components. Further, the claim recites a percentage without indicating what basis the percentage calculation is computed, i.e. weight percent, volume percent, etc

g. Claim 7 recites the limitation “the solvent of the resin” however there is insufficient antecedent basis for this limitation.

h. Claim 8 does not include a period and hence it is unclear what is meant to be encompassed by the claim given that there is no end to the claim. Further Claim 8 recites the

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term "resin polymerization of cross-link" which term is unclear. Is this term supposed to mean crosslinking of the polymer resin or polymerization of the resin from monomers or polymerization followed by crosslinking of the polymer, etc.?

i. Claims 10, 11, 18 and 21 recite the limitation "tiny particles" however the term "tiny" is a relative term which renders the claims indefinite. The term "tiny" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

j. Claim 12 recites the limitation "the solid content of the resin B" however there is insufficient antecedent basis for this limitation, particularly considering the instant claim and parent claim provide no disclosure or suggestion that the resin B is a dispersion or other form of coating including non-solid components. Further, the claim recites a percentage without indicating what basis the percentage calculation is computed, i.e. weight percent, volume percent, etc.

k. Claims 14 and 20 recite the term "a optic", which should be "an optic."

m. Claims 18 and 21 recite the limitation "in the neighborhood of the upper surface" however it is unclear what is meant to be considered "the neighborhood."

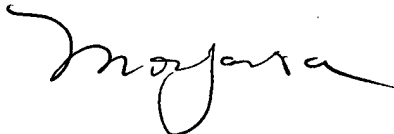
5. Considering the disclosure and instant claims are replete with grammatical, idiomatic and technical errors, appropriate correction to the disclosure including the claims is required to be made prior to examination on the merits.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monique R Jackson whose telephone number is 571-272-1508. The examiner can normally be reached on Mondays-Thursdays, 8:00AM-4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on 571-272-1284. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Monique R. Jackson
Primary Examiner
Technology Center 1700
June 27, 2005